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CHAPTER REPORTS

THE COLUMBIA CHAPTER

The usual activities were much curtailed during the year 1918-19. From the small number of graduates enrolled the following were found to be deserving of election to Sigma Xi, and were duly initiated on May 15, 1919:

UNDERGRADUATES

GEORGE BARSLEY	<i>Chemical Engineering</i>
RALPH A. BLOOMSBURG	<i>Electrical Engineering</i>

GRADUATES

BUNSUKE ARAKI, Imperial University Tokio	<i>Chemistry</i>
Several publications.	

TOKEO IKEGUCHI, M.D. (1911), Osaka Medical College	<i>Chemistry</i>
Numerous publications in Osaka Medical Journal, Tokyo Medical Journal, and others.	

MARION RICE (Mrs. Ray W. Hart), B.S. (Mass. Inst. Tech., 1914), A.M. (Columbia, 1918)	
The X-Ray Spectrum of Tungsten (with A. W. Hull), Nat. Acad. Science, May, 1916. Petrographic Notes on the Ore Deposits of Jerome, Arizona, Bull. Amer. Inst. Mining Eng., August, 1918.	

HAROLD L. SIMONS, A.B. (City College of New York, 1917), A.M. (Columbia, 1918)	<i>Chemistry</i>
Dissertation in organic chemistry in preparation but not yet published.	

ETHEL W. WICKWIRE, A.B. (Tri-State College, 1909), A.M. (Columbia, 1914)	<i>Physiology</i>
The Reciprocal Innervation of the Cardio-Vascular System.	

FACULTY

ALEXANDER H. WRIGHT, A.B. (Washington and Jefferson College, 1898), A.M. (ibid., 1901)	<i>Chemistry</i>
Viscosity of Ideal Liquid Mixtures. Also short paper in Jour. Am. Chem. Soc., May, 1918.	

SAMUEL J. KIEHL, A.B. (Otterbein, 1910)	<i>Chemistry</i>
A New Derivation of the Phase Rule.	

H. W. FARWELL, *Secretary*

THE MISSOURI CHAPTER

1918-19

The Chapter has had a reasonably successful year in spite of the fact the influenza and S. A. T. C. epidemics prevented the usual activities of the fall term. The annual circuit lectures in cooperation with the University of Kansas Chapter were postponed until next fall.

The Chapter held four meetings during the second term, two of which were scientific meetings at which papers were presented by members of the Chapter, the remaining two meetings being the annual business meeting and the annual initiation.

At the meeting held February 21, 1919, Dr. Herman Schlundt, Professor of Physical Chemistry, addressed the Society on "The Chemistry of Mesothorium." Mr. Buell Tracey Eccles was elected to associate membership at this meeting, being presented by the Departments of Physics and Astronomy.

At the meeting held March 21, 1919, the following papers were presented:

"Some Factors Affecting the Growth of Dairy Cattle," by Dr. C. H. Eccles, Professor of Dairy Husbandry.

"The Pigmentation of the Nerve Cell," by Dr. D. H. Dolly, Professor of Pathology.

The following were elected to active membership at the annual business meeting on March 28, 1919:

FROM THE GRADUATE SCHOOL

MILTON HENRY FOHRMAN, B.S. in Agr. *Dairy Husbandry*

HAROLD G. NEWMAN, B.S. in Agr. A.M. *Veterinary*

"Studies on Contagious Abortion," Thesis for A.M.

The annual initiation was held on April 15, at which meeting Dr. Walter Miller, Dean of the Graduate School, University of Missouri, addressed the Society on "The Scholar in Modern Life."

LEROY S. PALMER, *Secretary*

THE SYRACUSE CHAPTER

1918-19

November 18, 1918. Edwin F. MacCarthy, Prof. of Forest Utilization, N. Y. State Coll. Forestry. Occurrence of Knots and Spiral in Adirondack Red Spruce. Carl J. Drake, Instructor in Forest Entomology, N. Y. State Coll. Forestry. Notes on *Nezara viridula*, a serious plant pest in the south.

December 13, 1918. R. S. Boehner, Prof. of Chemistry. Gas Warfare. E. N. Pattee, Prof. of Chemistry and head of Chemistry Dept. The outlook for chemical industries in the U. S.

January 10, 1919. T. C. Hopkins, Prof. and head of department of Geology. Exploring and prospecting for oil in Wyoming and Kentucky. Chas. H. Richardson, Prof. and head of department of Mineralogy. Some results of recent geological research in Vermont.

February 6, 1919. H. S. Steensland, Prof. of Pathology, Coll. of Medicine. The action of benzol on animals. Frank P. Knowlton, Prof. of Physiology, Coll. of Medicine. The Electrocardiogram, with demonstration.

March 14, 1919. E. D. Roe, Jr., Prof. of Mathematics. The irreducible factors of $1 + X + X^2 + \dots + X^{(n-1)}$. R. R. Tatnall, Prof. and head of department of Physics. The production and measurement of low pressures.

April 11, 1919. L. M. Hickernell, Asst. Prof. Zoology. The habits and structure of the 17-year Cicada. H. F. A. Meier, Assoc. Prof. Botany. The fixation of atmospheric nitrogen by plants.

May 9, 1919. Louis Mitchell, Assoc. Prof. of Civil Engineering. The use of diagrams in the solution of hydraulic problems. Rich D. Whitney, Assoc. Prof. of Electrical Engineering. The destruction of underground structures by electrolysis.

These papers presented at the scientific meeting were all given by members of the Syracuse Chapter. They represent an account of research carried on by the active members. A great deal of interest was displayed by the chapter in this sort of program and the chapter feels that this has been one of the best years we have had. No public or open meetings were held this year.

There has been extended discussion on such problems as the duty of scientific societies and scientific departments of universities in the matter of duty free importations of apparatus and materials.

This problem was considered from the point of view of American industries, as well as from the best good of scientific teaching and research. Another discussion dealt with the proposal to install experiment stations for engineering and other non-agricultural sciences. This arose out of the introduction in Congress of a bill to advance money for such purposes.

The Chapter has undertaken to gather and keep on file a list of scholarships, fellowships, prizes, and the like, which would be open for scientific research. It is the purpose to make the Chapter a source of accurate information on the rewards for scientific research, in this country and abroad. To this end the Secretary would be very glad to receive announcements and statements of this sort, in order that his list of such rewards might be as complete as possible.

In spite of the unusual conditions due to the war the Chapter feels that it has had a very successful year. It expresses the hope that the Society in general has come to an appreciation of the need for closer contact and better harmony in everything that relates to scientific research and progress.

ELECTED TO MEMBERSHIP

FACULTY

ANDREW JOHNSON BIGNEY, A.B., A.M.

Assistant Professor of Zoology

Influence of Adrenin on the Migration of Pigment in Melanophores of the Skin and Retinal Cells of the Frog. Jour. Exp. Zool., vol. 27, No. 3, 1919. A Century of Progress in Scientific Thought. Indiana Acad. Sci. 1916.

CARL CHESWELL FORSAITH, A.B., A.M., Ph.D.

Instructor Dendrology, College of Forestry

Some Features in the Anatomy of the Malvales. Am. Jour. Bot. 5: 238-249, 1915. Pollen Sterility in Relation to the Geographical Distribution of Some Onagraceae. Bot. Gaz. 62: 466-487, 1916. A Report on Some Allocthonous Peat Deposits of Florida. Bot. Gaz. 62: 32-52: 63: 190-208, 1916.

GRADUATE STUDENTS

CLIFTON EDWIN HALSTEAD, A.B.

Teaching Fellow, Botany

The Hydrogen Ion Concentration of a Balanced Solution—thesis for A.M.

GEORGE T. HARGITT, *Secretary*

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UNIVERSITY OF WASHINGTON CHAPTER

ELECTED FEBRUARY 12, 1919

FACULTY

CONRAD W. ZIMMERMAN, A.B. *Lecturer in Forestry*
Tests of Western Yellow Pine Car Sills, Joists and Small Clear Pieces.
Joists and Small Clear Pieces.
Bulletin 497, U. S. Dept. Agr., April, 1917.

GRADUATES

ANNIE L. FALLIS, A.B. *Botany*
Growth in Some Laminariaceae. Pub. Puget Sound Biol. Sta., 1: 137-155.
MADELL GILLE, B.S., M.S. *Zoology*
Variation in *Acmaea scutum*—thesis for M.S.
KATHERINE E. LUDGATE, A.B., M.S. *Psychology*
The Standardization of Some Performance Tests Among School Children
—thesis for M.S.
CLINTON L. UTTERBACK, B.S., M.S. *Physics*
Study of Magnetic Flux with Air Gap in Permanent Magnets—thesis
for M.S.

ALUMNUS

GEORGE W. HUTTON, B.S. *Forestry*
Forest Taxation as a Factor in Forest Management. Proc. Soc. Am.
For., July, 1916.

UNDERGRADUATES

CATHERINE SMITH *Botany*
WALTER H. WEBER *Electrical Engineering*
Design and construction of a Pair of Condenser Terminals—senior thesis.
YING CHUN WONG *Pharmacy*

NEW MEMBERS ELECTED IN JUNE, 1919

FACULTY

ROY M. WINGER, Ph.D. *Mathematics*
Self Projective Rational Curves of the Fourth and Fifth Orders, Amer.
Jour. Math., vol. 1, Jan. 1914.

UNDERGRADUATE STUDENTS

KIRSTEN LARSEN *Physics*
HELEN ROBB *Geology*
FRANCIS M. RYAN *Electrical Engineering*
Senior Thesis: Multiplex Radio Telephony.
JACK R. TOLMIE *Electrical Engineering*
Senior Thesis: Tone Transmission by Radio.

MORTIMER WHITMAN

Electrical Engineering

Senior Thesis: Engineering features of the Tacoma Municipal Light and Power Plant.

LILLIAN WOOD

Chemistry

Senior Thesis: Methods of Chemical Analyses of Peroxide Ores.

A good many students in our university have been elected to full active membership on pure *promise* of research ability. This year our officers as well as the board of electors have taken a very firm stand that no candidate should be elected into the society on pure promise alone. The matter of associate membership was up before the board of electors, and they were unanimous in recommending its adoption by our organization. In accordance with this recommendation, an amendment to the by-laws was proposed for the consideration of the society, and it will be voted on at our next meeting in January. I think it is a certainty that this amendment will pass and thereby insure a segregation of candidates into active and associate members.

NATHAN FASTEN, *Secretary*

REPORTS OF CLUBS

SIGMA XI ALUMNI CLUB OF DULUTH

"The Sigma Xi Alumni Club of Duluth held only one meeting during 1919. It was hoped that following the war regular meetings would be resumed, but owing to the loss of several members by removal and our present small numbers it was voted to meet only at the call of the president.

"At this meeting E. W. Kelly was elected president and Chas. F. Goldthwait Secretary.

"The Club will be especially glad to get in touch with any Sigma Xi members who may have moved into this vicinity."

CHAS. F. GOLDTHWAIT, *Secretary*